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	Application No.	Applicant(s)	
	10/604,657	HOUSE ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Edward Raymond	2857	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject	oplication. If not included n will be mailed in due co	l ourse. THIS
1. 🔀 This communication is responsive to Amendment filed 9/2	<u>/05</u> .		
2. The allowed claim(s) is/are <u>1-9,16-23,36-41 and 57-59</u> .			•
 Acknowledgment is made of a claim for foreign priority up a) ☐ All b) ☐ Some* c) ☐ None of the: 	nder 35 U.S.C. § 119(a)-(d) or (f).		
 Certified copies of the priority documents have 	e been received.		
Certified copies of the priority documents have			
Copies of the certified copies of the priority do	cuments have been received in this	national stage application	on from the
International Bureau (PCT Rule 17.2(a)).	•		
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requ	uirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv	nitted. Note the attached EXAMINEF es reason(s) why the oath or declar	R'S AMENDMENT or NC ation is deficient.	TICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") must	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers		9-948) attached	
1) hereto or 2) to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment or in the	Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	l.84(c)) should be written on the draw the header according to 37 CFR 1.121	ings in the front (not the b (d).	oack) of
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	osit of BIOLOGICAL MATERIAL FOR THE DEPOSIT OF BIOLOGIC	must be submitted. No CAL MATERIAL.	ote the
Add-ch-scadd-1			
Attachment(s) 1. Notice of References Cited (PTO-892)	5. Notice of Informal	Patent Application (PTO-	-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. MInterview Summary		:
3. Information Disclosure Statements (PTO-1449 or PTO/SB/	Paper No./Mail Da 08), 7. ⊠ Examiner's Amend	ate <u>20050915</u> . Iment/Comment	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Statem	ent of Reasons for Allow	vance
	9.		
			!

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DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with William Siverio on September 15, 2005.

The application has been amended as follows:

Replace the text in **claim 1** with the following:

"1. A machine life indicating system, comprising:

means for receiving historical data, the historical data providing an indication of the operating lifetime of major components within machines of a particular type;

means for calculating the life remaining in a machine using, the historical data and the L_{10} life calculation, wherein the L_{10} life calculation comprises the load factor rating and the rotational speed of the machine; and

means for displaying the life remaining in the machine."

Claims 13 and 14 are cancelled.

Replace the text in **claim 16** with the following:

"16. A machine life indicating system, comprising: means for receiving operator input data, the operator input data providing information specific to the operation history of a machine; means for calculating the life remaining in the machine using the operator

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input data, wherein the means for calculating the life remaining in the machine comprises means for calculating the life remaining in the machine using historical data and an L_{10} life calculation; and means for displaying the life remaining in the machine."

Replace the text in **claim 19** with the following:

"19. The system of claim 1, wherein the means for calculating the life remaining in the machine using probability distribution functions comprises means for calculating the life remaining in the machine using probability distribution functions for individual components within the machine.

Replace the text in **claim 20** with the following:

"20. The system of claim 1, wherein the machine is selected from the group of machines consisting of a transformer, a wind turbine, an electric motor, and a generator.

Replace the text in **claim 21** with the following:

"21. The system of claim 1, wherein the means for receiving operator input data is operable to receive the operator input data such that the operator input data is not continuously received by the means for receiving.

Replace the text in claim 22 with the following:

"22. The system of claim 1, wherein the machine is within a class of machines defined by the machines of the particular type."

Replace the text in claim 23 with the following:

"23. The system of claim 1, wherein the means for calculating the life remaining in a machine comprises means for calculating the life remaining in the machine based on the life remaining in at least one component within the machine."

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Replace the text in claim 57 with the following:

"57. A machine life indicating system, comprising; an assessment tool operable to receive operator input data, the operator input data providing information specific to the operation history of a machine, wherein the assessment tool is operable to calculate the life remaining in the machine using historical data and an L₁₀ life calculation; an analysis application, in communication with the assessment tool, the analysis application operable to calculate the life remaining in the machine using, at least in part, the operator input data; and a display for displaying the life remaining in the machine."

Allowable Subject Matter

2. The following is an examiner's statement of reasons for allowance: Talbott teaches a condition based prognosis for machines. The prior art does not teach means for calculating the life remaining in a machine using, the historical data and the L_{10} life calculation, wherein the L_{10} life calculation comprises the load factor rating and the rotational speed of the machine.

The prior art of record does not teach calculating the life remaining in the machine based at least in part on the insulation class or insulation resistance test class of the machine.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

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3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edward Raymond whose telephone number is 571-272-2221. The examiner can normally be reached on Monday through alternating Friday between 8:00 AM and 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marc Hoff can be reached on 571-272-2216. The fax phone numbers for the organization where this application or proceeding is assigned are 571-273-2221 for regular communications and 571-272-1562 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-

1782

September 15, 2005

Edward Raymond

Patent Examiner

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